

especially 2, 2, 6, 6-tetramethylpiperidin-1-oxyl (TEMPO).

--21. (New) A process according to Claim 19, wherein the enzyme capable of oxidation is an oxidoreductase.

--22. (New) A process according to Claim 21, wherein the enzyme is a peroxidase, especially horse radish, soy-bean, lignin peroxidase or myelo- or lacto-peroxidase, and the oxidizing agent is hydrogen peroxide.

--23. (New) A process according to Claim 21, wherein the enzyme is a polyphenol oxidase or a laccase and the oxidizing agent is oxygen.

--24. (New) A process according to Claim 19, wherein the enzyme is a hydrolase, especially phytase or lipase, in the presence of a metal compound.

--25. (New) A process according to Claim 19, wherein the primary alcohol is comprised in a carbohydrate.

--26. (New) A process according to Claim 25, wherein the carbohydrate is an α -glucan or fructan or a derivative thereof.

--27. (New) A process according to Claim 25, wherein a carbonyl-containing carbohydrate containing at least 1 cyclic monosaccharide chain group carrying a carbaldehyde group per 25 monosaccharide units and per average molecule is produced.

--28. (New) A process according to Claim 25, wherein the carbohydrate is a hydroxyalkylated carbohydrate or a glycoside or a glyconic acid.

--29. (New) A process according to Claims 19, wherein the primary alcohol is comprised in a steroid compound.

--30. (New) A process according to Claim 19, wherein the primary alcohol is comprised in textile fibers.

Alcohol
--31. (New) An oxidized carbohydrate, the carbohydrate being selected from disaccharides, oligosaccharides and polysaccharides of the glucan, mannan, galactan, fructan, and chitin types and carbohydrate glycoside, containing at least 1 cyclic monosaccharide chain group carrying a carbaldehyde group per 25 monosaccharide units and per average molecule, or a chemical derivative thereof.

--32. (New) An oxidized carbohydrate according to Claim 31, containing at least 5 monosaccharide units per average molecule.

--33. (New) An oxidized carbohydrate according to Claim 31, which contains 1 to 50 cyclic monosaccharide chain group carrying a carbaldehyde group per 50 monosaccharide units and per average molecule.

--34. (New) A carbohydrate derivative according to Claim 31, in which derivative at least a part of the carbaldehyde groups has been converted to a group with the formula $-\text{CH}=\text{N}-\text{R}$ or $-\text{CH}_2-\text{NHR}$, wherein R is hydrogen, hydroxyl, amino, or a group R^1 , OR^1 or NHR^1 , in which R^1 is $\text{C}_1\text{-C}_{20}$ alkyl, $\text{C}_1\text{-C}_{20}$ acyl, a carbohydrate residue, or group coupled with or

capable of coupling with a carbohydrate residue.

Alcohol

--35. (New) A carbohydrate derivative according to Claim 31, in which derivative at least a part of the carbaldehyde groups has been converted to a group with the formula $-\text{CH}(\text{OR}^3)-\text{O}-\text{CH}_2-\text{COOR}^2$ or $-\text{CH}(-\text{O}-\text{CH}_2-\text{COOR}^2)_2$, in which R^2 is hydrogen, a metal cation or an optionally substituted ammonium group, and R^3 is hydrogen or a direct bond to the oxygen atom of a dehydrogenated hydroxyl group of the carbohydrate.

--36. (New) A carbohydrate according to Claim 31, further containing carboxyl and/or carboxymethyl groups.--

R E M A R K S

The above changes in the claims merely place this national stage application in substantially the same condition as it was during Chapter II of the international stage, with the multiple dependencies being removed.

Respectfully submitted,

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